

## PO Facility Risk Assessment

<b>Name(s) of Risk Team Members:</b> R. Gill, K. Klaus, K. Kusche, R. Liegel, S. Shapiro, M. Zarcone	<b>Point Value → Parameter ↓</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Area/Facility Description Title:</b> General Fire Issues	<b>Occupancy or Use</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Area/Facility # (if applicable):</b> PO-FRA-004						
<b>Area/Facility Description:</b> Physics Department facility wide fire hazards and controls	<b>Severity</b>	<b>First Aid Only</b>	<b>Medical Treatment</b>	<b>Lost Time</b>	<b>Partial Disability</b>	<b>Death or Permanent Disability</b>
	<b>Likelihood</b>	<b>Extremely Unlikely</b>	<b>Unlikely</b>	<b>Possible</b>	<b>Probable</b>	<b>Multiple</b>
<b>Date:</b> May 19, 2005	<b>Rev. #:</b> 0					
<b>Reason for Revision (if applicable):</b>				<b>Comments:</b>		

			Risk with Controls in Place					Risk with Additional Controls in Place				
Physical Item or Activity	Hazard(s)	Control(s)	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Electrical fire	Smoke and heat	Fire detection systems, equipment protective systems, Fire Hazards Analysis, fire stops, Tier 1 inspections, maintenance, electrical & life safety code compliance, emergency procedures, BNL fire rescue	4	3	3	36						
Flammable liquid fire	Smoke and heat	Fire detection systems, ESRs, training, chemical segregation, inventory controls, fire cabinets, MSDS, Tier 1 inspections, storage controls, ventilation, labeling, ignition source control	4	3	3	36						
Flammable gases	Smoke and heat	Fire detection systems, ESRs, training, segregation, inventory controls, fire cabinets, MSDS, Tier 1 inspections, storage controls, ventilation, labeling, ignition source control	4	3	3	36						

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Physical Item or Activity	Hazard(s)	Control(s)	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Combustible material fire	Smoke and heat	Fire detection systems, training, equipment protective systems, Tier 1 inspections	4	2	3	24						
Chemical fire	Smoke and heat	Fire detection systems, ESRs, training, chemical segregation, inventory controls, fire cabinets, MSDS, Tier 1 inspections, storage controls, ventilation, labeling, ignition source control	4	2	3	24						
Reactive materials	Smoke and heat	Fire detection systems, ESRs, training, chemical segregation, inventory controls, fire cabinets, MSDS, Tier 1 inspections, storage controls, ventilation, labeling, ignition source control	4	2	3	24						
Further Description of Controls Added to Reduce Risk:												
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate				61 to 80 Substantial				81 or greater Intolerable	